Diode Module

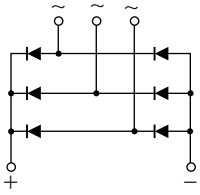
DF40BA80

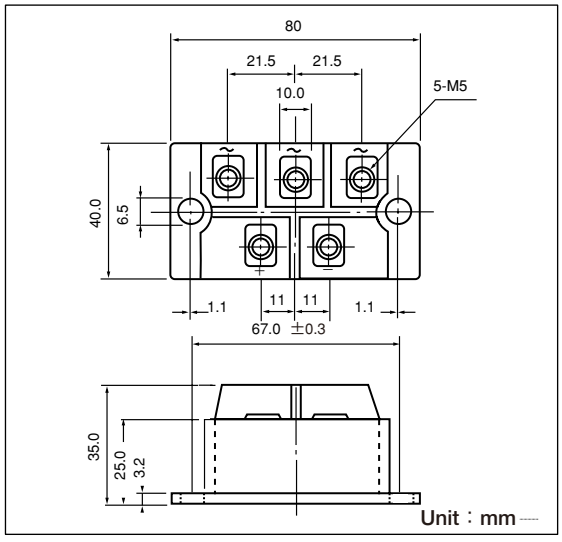
UL; E76102

《Features》
Power Diode Module DF40BA is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 40Amp （Tc＝119℃） Repetitive peak reverse voltage is up to 800V.

- TjMax＝150℃
- Isolated mounting base
- High reliability by unique glass passivation

《Applications》
・AC, DC Motor Drive / AVR /
Switching-for three phase rectification





■ Maximum Ratings （Tj=25℃ unless otherwise specified）

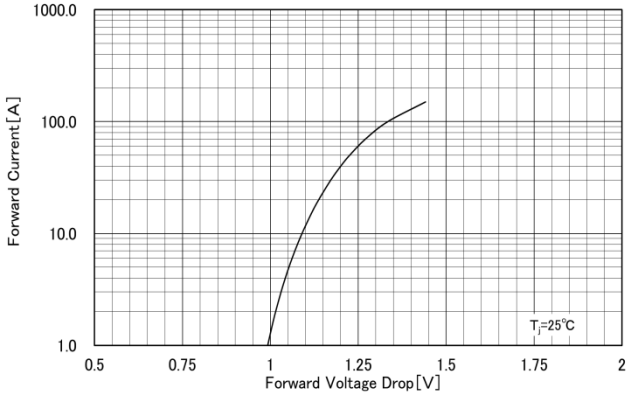
Item	Symbol	Unit	DF40BA80
Repetitive Peak Reverse Voltage	V_{RRM}	V	800
Non-Repetitive Peak Reverse Voltage	V_{RSM}	V	960

Item		Symbol	Unit	Ratings	Conditions
Output Current(D.C.)		I_D	A	40	T_C=119℃
Surge Forward Current		I_{FSM}	A	640/700	1/2cycle,50/60Hz,Peak value,non-repetitive
Operating Junction Temperture		T_j	℃	-40 to +150	
Storage Temperature		T_{stg}	℃	-40 to +125	
Isolation Breakdown Voltage(R.M.S.)			V	2500	A.C.1minute
Mounting Torque	Mounting M6		N・m (kgf・cm)	4.7(48)	Recommended Value 2.5 to 3.9(25 to 40)
	Terminal M5			2.7(28)	Recommended Value 1.5 to 2.5(15 to 25)
Mass			g	200	Typical

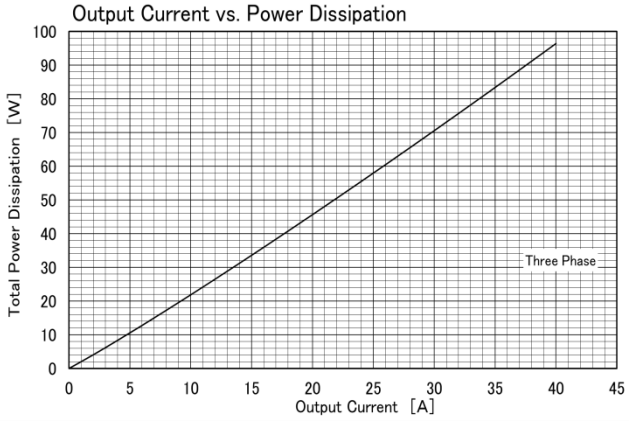
■ Electrical Characteristics （Tj=25℃ unless otherwise specified）

Item	Symbol	Unit	Ratings			Conditions
			Min.	Typ.	Max.	
Repetitive Peak Reverse Current	I_{RRM}	mA			4.0	T_j=150℃ at V_{RRM}
Forward Voltage Drop	V_{FM}	V			1.2	Forward current 40A
Thermal Resistance	R_{th}	℃/W			0.32	Junction to case (Per Module)

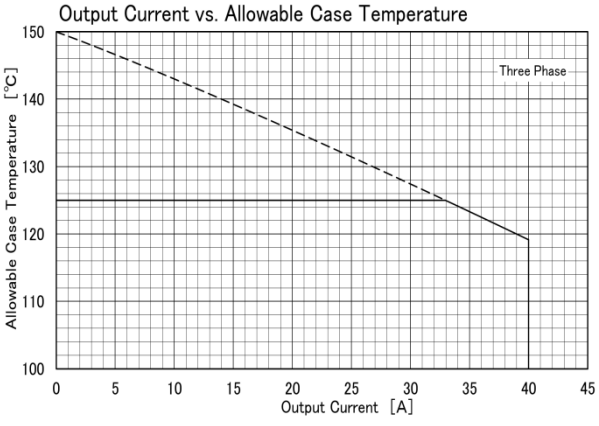
Maximum Forward Characteristics



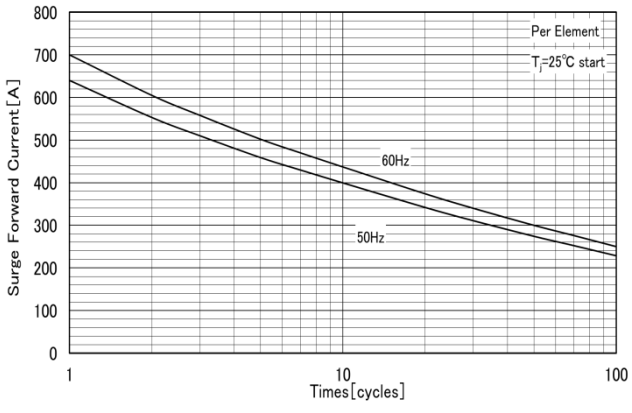
Output Current vs. Power Dissipation



Output Current vs. Allowable Case Temperature



Surge Forward Current Rating《Non-Repetitive》



Transient Thermal Impedance